

ABSTRACT:

Vehicle sideview, rearview, and auxillary mirrors; and molds, gages, and special tooling for making same are disclosed. These mirrors are comprised of flat, spherical, and aspherical optical surfaces, in combinations, as desired for any vehicle type or mounting position application. The mirror surfaces are developed as a function of certain Two-Eye optical characteristics concerning apparent image size and/or magnification factors between the two Eyes known as aniseikonia ratios, herein designated as ZETA. Desired ZETA ($\$$) ratios are specified for the Two-Eye-Pairs across all or part of the mirror's surface, as the Vehicle Operator's lines-of-sight focus upon specified "Focus Lines" strategically located on either side of the vehicle. Aspheric Vehicle Mirrors, developed by the methods herein disclosed, have the propensity of becoming optically the most user-friendly possible for any given vehicle application, by selectively controlling the apparent image size disparity as instantaneously observed by an Operator's two- Eye-pairs at any given point across the mirror's total viewing surface.

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